STATE OF SOUTH CAROLINA)
)
(Caption of Case))
)
)
)
)
)
)
)
)
)

BEFORE THE
PUBLIC SERVICE COMMISSION
OF SOUTH CAROLINA

COVER SHEET

DOCKET NUMBER: 2006 - 224 - E

(Please type or print)
Submitted by: Len S. Anthony

Address: Progress Energy Service Co., LLC
410 S. Wilmington St. PEB 17A4
Raleigh, NC 27601-1849

SC Bar Number: 405
Telephone: 919-546-6367
Fax: 919-546-2694
Other:

Email: len.s.anthony@pgnmail.com

NOTE: The cover sheet and information contained herein neither replaces nor supplements the filing and service of pleadings or other papers as required by law. This form is required for use by the Public Service Commission of South Carolina for the purpose of docketing and must be filled out completely.

DOCKETING INFORMATION (Check all that apply)

☐ **Emergency Relief demanded in petition**

☐ **Request for item to be placed on Commission's Agenda expeditiously**

☒ **Other:** Report

INDUSTRY (Check one)

- ☒ Electric
- ☐ Electric/Gas
- ☐ Electric/Telecommunications
- ☐ Electric/Water
- ☐ Electric/Water/Telecom.
- ☐ Electric/Water/Sewer
- ☐ Gas
- ☐ Railroad
- ☐ Sewer
- ☐ Telecommunications
- ☐ Transportation
- ☐ Water
- ☐ Water/Sewer
- ☐ Administrative Matter
- ☐ Other: _____

NATURE OF ACTION (Check all that apply)

- ☐ Affidavit
- ☐ Agreement
- ☐ Answer
- ☐ Appellate Review
- ☐ Application
- ☐ Brief
- ☐ Certificate
- ☐ Comments
- ☐ Complaint
- ☐ Consent Order
- ☐ Discovery
- ☐ Exhibit
- ☐ Expedited Consideration
- ☐ Interconnection Agreement
- ☐ Interconnection Amendment
- ☐ Late-Filed Exhibit
- ☐ Letter
- ☐ Memorandum
- ☐ Motion
- ☐ Objection
- ☐ Petition
- ☐ Petition for Reconsideration
- ☐ Petition for Rulemaking
- ☐ Petition for Rule to Show Cause
- ☐ Petition to Intervene
- ☐ Petition to Intervene Out of Time
- ☐ Prefiled Testimony
- ☐ Promotion
- ☐ Proposed Oder
- ☐ Protest
- ☐ Publisher's Affidavit
- ☒ Report
- ☐ Request
- ☐ Request for Certification
- ☐ Request for Investigation
- ☐ Resale Agreement
- ☐ Resale Amendment
- ☐ Reservation Letter
- ☐ Response
- ☐ Response to Discovery
- ☐ Return to Petition
- ☐ Stipulation
- ☐ Subpoena
- ☐ Tariff
- ☐ Other: _____

Print Form Reset Form

Progress Energy

July 24, 2007

Charles L.A. Terreni
Chief Clerk and Administrator
South Carolina Public Service Commission
Post Office Drawer 11649
Columbia, South Carolina 29211

Re: Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc.
Power Plant Performance Report (June 2007)
Docket No. 2006-224-E

Dear Mr. Terreni:

Enclosed are an original and one copy of the Power Plant Performance Report for Carolina Power & Light Company d/b/a Progress Energy Carolinas, Inc. for the month of June 2007.

Sincerely,

s/ Len S. Anthony

Len S. Anthony
Deputy General Counsel – Regulatory Affairs

LSA/dhs
Enclosures
45612

c: John Flitter (ORS)

Progress Energy Service Company, LLC
P.O. Box 1551
Raleigh, NC 27602

The following units had no off-line outages during the month of June:

Brunswick Unit 1
Brunswick Unit 2
Harris Unit 1
Robinson Unit 2
Mayo Unit 1
Roxboro Unit 2
Roxboro Unit 4

June 2007

Roxboro Unit 3

Full Scheduled Outage

A. Duration: The unit was taken out of service at 23:23 on June 12, and returned to service at 1:00 on June 16, a duration of 73 hours and 37 minutes.

B. Cause: 3A and 3B Air Heater Wash

C. Explanation: The unit was taken out of service to inspect and wash the 3A and 3B air heaters.

D. Corrective Action: Upon completion of the inspection and maintenance activities on the 3A and 3B air heaters, the unit was put in reserve shutdown.

Full Forced Outage

A. Duration: The unit was taken out of service at 13:00 on June 17, and returned to service at 16:54 on June 17, a duration of 3 hours and 54 minutes.

B. Cause: Circulating Water Pumps

C. Explanation: Upon completion of the maintenance outage to wash the 3A and 3B air heaters, the unit was put into reserve shutdown. At the end of the reserve shutdown period, an attempt was made to start the unit and put it back into service. However, due to problems with circulating water pumps, the unit could not be started.

D. Corrective Action: Repairs were made to correct the issues associated with the circulating water pumps, and the unit was returned to service.

	Month of June 2007		Twelve Month Summary		See Notes*
MDC	938	MW	938	MW	1
Period Hours	720	HOURS	8,760	HOURS	
Net Generation	683,339	MWH	7,930,353	MWH	2
Capacity Factor	101.18	%	96.51	%	
Equivalent Availability	98.90	%	93.61	%	
Output Factor	101.18	%	101.55	%	
Heat Rate	10,384	BTU/KWH	10,325	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	0	0.00	3
Partial Scheduled	4,726	0.70	34,562	0.42	4
Full Forced	0	0.00	407,202	4.96	5
Partial Forced	2,694	0.40	62,888	0.77	6
Economic Dispatch	0	0.00	0	0.00	7
Possible MWH	675,360		8,216,880		8

* See 'Notes for Nuclear Units' filed with the January 2007 report.
** Gross of Power Agency

	Month of June 2007		Twelve Month Summary		See Notes*
MDC	937	MW	937	MW	1
Period Hours	720	HOURS	8,760	HOURS	
Net Generation	673,524	MWH	6,545,228	MWH	2
Capacity Factor	99.83	%	79.74	%	
Equivalent Availability	99.40	%	79.02	%	
Output Factor	99.83	%	98.26	%	
Heat Rate	10,593	BTU/KWH	10,577	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	1,040,570	12.68	3
Partial Scheduled	4,042	0.60	100,626	1.23	4
Full Forced	0	0.00	506,464	6.17	5
Partial Forced	0	0.00	61,435	0.75	6
Economic Dispatch	0	0.00	0	0.00	7
Possible MWH	674,640		8,208,120		8

* See 'Notes for Nuclear Units' filed with the January 2007 report.
** Gross of Power Agency

	Month of June 2007		Twelve Month Summary		See Notes*
MDC	900	MW	900	MW	1
Period Hours	720	HOURS	8,760	HOURS	
Net Generation	648,431	MWH	7,961,805	MWH	2
Capacity Factor	100.07	%	100.99	%	
Equivalent Availability	100.00	%	99.21	%	
Output Factor	100.07	%	101.73	%	
Heat Rate	10,987	BTU/KWH	10,807	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	0	0.00	3
Partial Scheduled	0	0.00	1,063	0.01	4
Full Forced	0	0.00	57,465	0.73	5
Partial Forced	0	0.00	11,732	0.15	6
Economic Dispatch	0	0.00	0	0.00	7
Possible MWH	648,000		7,884,000		8

* See 'Notes for Nuclear Units' filed with the January 2007 report.
** Gross of Power Agency

	Month of June 2007		Twelve Month Summary		See Notes*
MDC	710	MW	710	MW	1
Period Hours	720	HOURS	8,760	HOURS	
Net Generation	525,429	MWH	5,703,843	MWH	2
Capacity Factor	102.78	%	91.71	%	
Equivalent Availability	99.98	%	88.11	%	
Output Factor	102.78	%	103.38	%	
Heat Rate	10,924	BTU/KWH	10,811	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	628,586	10.11	3
Partial Scheduled	0	0.00	16,784	0.27	4
Full Forced	0	0.00	73,508	1.18	5
Partial Forced	79	0.02	14,829	0.24	6
Economic Dispatch	0	0.00	9,775	0.16	7
Possible MWH	511,200		6,219,600		8

* See 'Notes for Nuclear Units' filed with the January 2007 report.

	Month of June 2007		Twelve Month Summary		See Notes*
MDC	741	MW	743	MW	1
Period Hours	720	HOURS	8,760	HOURS	
Net Generation	420,574	MWH	4,482,604	MWH	2
Capacity Factor	78.83	%	69.06	%	
Equivalent Availability	99.96	%	90.57	%	
Output Factor	78.83	%	73.67	%	
Heat Rate	10,299	BTU/KWH	10,536	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	363,815	5.59	3
Partial Scheduled	0	0.00	81,290	1.25	4
Full Forced	0	0.00	42,745	0.66	5
Partial Forced	230	0.04	125,113	1.92	6
Economic Dispatch	112,716	21.13	1,413,262	21.71	7
Possible MWH	533,520		6,508,680		8

* See 'Notes for Fossil Units' filed with the January 2007 report.
** Gross of Power Agency

	Month of June 2007		Twelve Month Summary		See Notes*
MDC	639	MW	655	MW	1
Period Hours	720	HOURS	8,760	HOURS	
Net Generation	420,047	MWH	4,267,282	MWH	2
Capacity Factor	91.30	%	74.43	%	
Equivalent Availability	99.78	%	85.13	%	
Output Factor	91.30	%	84.00	%	
Heat Rate	9,312	BTU/KWH	9,369	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	531,474	9.27	3
Partial Scheduled	0	0.00	270,021	4.71	4
Full Forced	0	0.00	24,708	0.43	5
Partial Forced	1,008	0.22	14,775	0.26	6
Economic Dispatch	39,025	8.48	630,506	11.00	7
Possible MWH	460,080		5,733,420		8

* See 'Notes for Fossil Units' filed with the January 2007 report.

	Month of June 2007		Twelve Month Summary		See Notes*
MDC	705	MW	706	MW	1
Period Hours	720	HOURS	8,760	HOURS	
Net Generation	315,958	MWH	3,680,566	MWH	2
Capacity Factor	62.25	%	59.51	%	
Equivalent Availability	87.89	%	76.97	%	
Output Factor	73.90	%	73.97	%	
Heat Rate	11,610	BTU/KWH	10,773	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	51,900	10.22	1,083,867	17.53	3
Partial Scheduled	0	0.00	62,872	1.02	4
Full Forced	2,750	0.54	100,968	1.63	5
Partial Forced	6,808	1.34	177,672	2.87	6
Economic Dispatch	130,184	25.65	1,075,838	17.40	7
Possible MWH	507,600		6,184,560		8

* See 'Notes for Fossil Units' filed with the January 2007 report.

	Month of June 2007		Twelve Month Summary		See Notes*
MDC	698	MW	699	MW	1
Period Hours	720	HOURS	8,760	HOURS	
Net Generation	366,040	MWH	4,207,926	MWH	2
Capacity Factor	72.84	%	68.72	%	
Equivalent Availability	97.07	%	96.46	%	
Output Factor	72.84	%	69.33	%	
Heat Rate	10,515	BTU/KWH	10,549	BTU/KWH	

	MWH	% of Possible	MWH	% of Possible	
Full Scheduled	0	0.00	39,728	0.65	3
Partial Scheduled	8,294	1.65	143,296	2.34	4
Full Forced	0	0.00	5,600	0.09	5
Partial Forced	6,456	1.28	28,127	0.46	6
Economic Dispatch	121,770	24.23	1,698,637	27.74	7
Possible MWH	502,560		6,123,240		8

* See 'Notes for Fossil Units' filed with the January 2007 report.
** Gross of Power Agency

Run Date 7/13/2007

Plant	Unit	Current MW Rating	January 2006 - December 2006	June 2007	January 2007 - June 2007
Asheville	1	197	72.44	64.34	49.32
Asheville	2	186	60.37	64.19	74.21
Cape Fear	5	144	72.32	78.71	77.57
Cape Fear	6	173	65.99	67.46	70.00
Lee	1	77	47.56	70.10	54.67
Lee	2	77	43.52	62.24	59.31
Lee	3	252	60.06	68.01	68.77
Mayo	1	741	67.04	78.83	68.28
Robinson	1	180	78.19	81.84	77.25
Roxboro	1	383	77.79	81.13	78.19
Roxboro	2	639	81.26	91.30	68.35
Roxboro	3	705	59.60	62.25	72.54
Roxboro	4	698	65.20	72.84	71.43
Sutton	1	97	44.30	52.85	56.91
Sutton	2	106	46.43	58.86	63.83
Sutton	3	403	54.54	37.72	45.40
Weatherspoon	1	49	36.15	20.33	52.09
Weatherspoon	2	49	37.40	47.91	53.59
Weatherspoon	3	79	50.52	66.02	67.04
Fossil System Total		5,235	65.25	70.17	67.45
Brunswick	1	938	87.51	101.18	98.95
Brunswick	2	937	89.68	99.83	73.78
Harris	1	900	89.16	100.07	102.09
Robinson Nuclear	2	710	103.59	102.78	80.83
Nuclear System Total		3,485	91.80	100.86	89.30
Total System		8,720	75.80	82.44	76.18

Amended SC Fuel Rule
Related to Nuclear Operations

There shall be a rebuttable presumption that an electrical utility made every reasonable effort to minimize cost associated with the operation of its nuclear generation system if the utility achieved a net capacity factor of ≥ 92.5% during the 12 month period under review. For the test period April 1, 2007 through June 30, 2007, actual period to date performance is summarized below:

Period to Date: April 1, 2007 to June 30, 2007

Nuclear System Capacity Factor Calculation (Based on net generation)

A.. Nuclear system actual generation for SCPSC test period	A =	6,433,208 MWH
B. Total number of hours during SCPSC test period	B =	2,184 hours
C. Nuclear system MDC during SCPSC test period (see page 2)	C =	3,485 MW
D. Reasonable nuclear system reductions (see page 2)	D =	1,275,057 MWH

A. SC Fuel Case nuclear system capacity factor: [(A + D) / (B + C)] * 100 = 101.3%

NOTE:
If Line Item E > 92.5%, presumption of utility's minimum cost of operation.
If Line Item E < 92.5%, utility has burden of proof of reasonable operations.

Amended SC Fuel Rule
Nuclear System Capacity Factor Calculation
Reasonable Nuclear System Reductions
Period to Date: April 1, 2007 to June 30, 2007

Nuclear Unit Name and Designation	BNP Unit # 1	BNP Unit # 2	HNP Unit # 1	RNP Unit # 2	Nuclear System
Unit MDC	938 MW	937 MW	900 MW	710 MW	3,485 MW
Reasonable refueling otuage time (MWH)	0	392,521	0	628,587	
Reasonable maintenance, repair, and equipment replacement outage time (MWH)	132,525	4,810	0	34,707	
Reasonable coast down power reductions (MWH)	0	0	0	6,195	
Reasonable power ascension power reductions (MWH)	20,463	27,100	0	22,063	
Prudent NRC required testing outages (MWH)	2,232	3,775	0	0	
SCPSC identified outages not directly under utility control (MWH)	0	0	0	0	
Acts of Nature reductions (MWH)	0	0	0	79	
Reasonable nuclear reduction due to low system load (MWH)	0	0	0	0	
Unit total excluded MWH	155,220	428,206	0	691,631	
Total reasonable outage time exclusions [carry to Page 1, Line D]					1,275,057